

## **Product datasheet for MR210402L3**

## Abcd2 (NM\_011994) Mouse Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Abcd2 (NM\_011994) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Abcd2

Synonyms: A; ABC3; ABC39; AL; ALDL1; ALDR; ALDRP

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

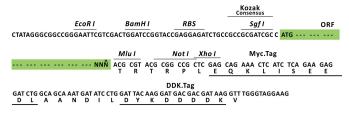
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR210402).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





st The last codon before the Stop codon of the ORF.

**ACCN:** NM\_011994

ORF Size: 2226 bp



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#### Abcd2 (NM\_011994) Mouse Tagged Lenti ORF Clone - MR210402L3

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>NM 011994.2</u>

 RefSeq Size:
 5540 bp

 RefSeq ORF:
 2226 bp

 Locus ID:
 26874

 UniProt ID:
 Q61285

Cytogenetics: 15 E3

**Gene Summary:** The membrane-associated protein encoded by this gene is a member of the superfamily of

ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. The function of this peroxisomal membrane protein is unknown; however this

protein is speculated to function as a dimerization partner of Abcd1 and/or other

peroxisomal ABC transporters. Mutations in the human gene have been observed in patients with adrenoleukodystrophy, a severe demyelinating disease. This gene has been identified as

a candidate for a modifier gene, accounting for the extreme variation among

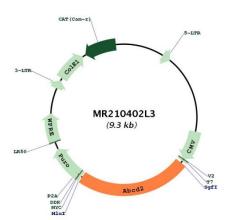
adrenoleukodystrophy phenotypes. This gene is also a candidate for a complement group of

Zellweger syndrome, a genetically heterogeneous disorder of peroxisomal biogenesis.

[provided by RefSeq, Jul 2008]



# **Product images:**



Circular map for MR210402L3